ODS 697

OBSTRUCTION DATA SHEET

ODS 697
BLUE GRASS AIRPORT
LEXINGTON, KENTUCKY

DIGITIZED FROM

OC 697
SURVEYED SEPTEMBER 1988
9TH EDITION

PREPARED AND DISTRIBUTED BY
THE NATIONAL OCEAN SERVICE
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FOR THE FEDERAL AVIATION ADMINISTRATION

C55.411/3:

OBSTRUCTION DATA SHEET

The Obstruction Data Sheet (ODS) provides digital obstruction and runway data for use in aircraft arrival and departure planning. This information has been obtained using field survey and photogrammetric methods by the Photogrammetry Branch of the National Ocean Service in accordance with Federal Aviation Regulations Part 77 (FAR-77), "Objects Affecting Navigable Airspace" and FAA Nr. 405, "Specifications - Airport Obstruction Chart and Related Products."

The ODS is a derivative of the Airport Obstruction Chart (OC). The source OC is indicated on the ODS cover. All objects, both obstructing and nonobstructing, that carry an elevation on the OC are listed in the ODS. The ODS (and OC) depict a representation of objects that existed at the time of the OC field survey.

ODS information is arranged as follows:

1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the physical end and threshold of Runway 9R. Objects in the Runway 27L approach or primary are listed with Runway 27L. (Objects in the common 9R/27L primary area are listed with both runways.)

2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows (see footnote 2 on page 3):

A(V) ..... Utility runway - visual approach only
A(NP) .... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C .... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D .... Nonutility runway - nonprecision instrument approach with visibility minimums as low as 3/4 mile
PIR ..... Precision instrument runway
SUPLC ... Supplemental C underlying a B(V)

FAR-77 imaginary surface dimensions are defined on page 2 of this report.

Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.

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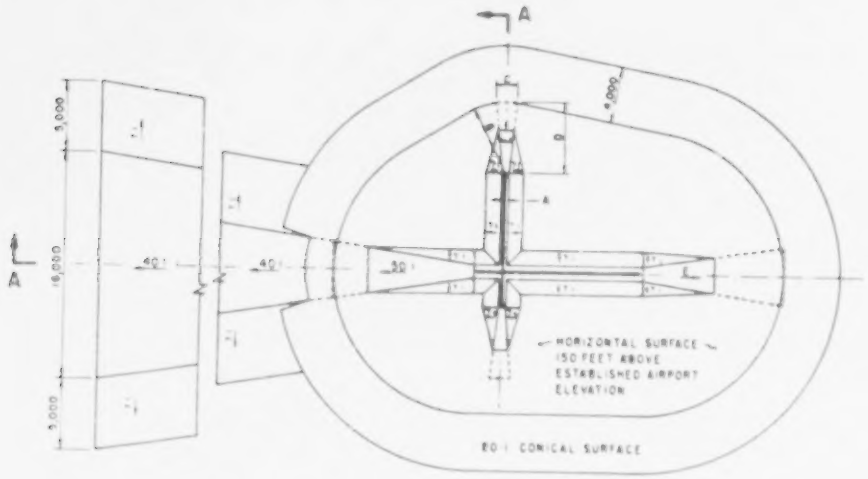
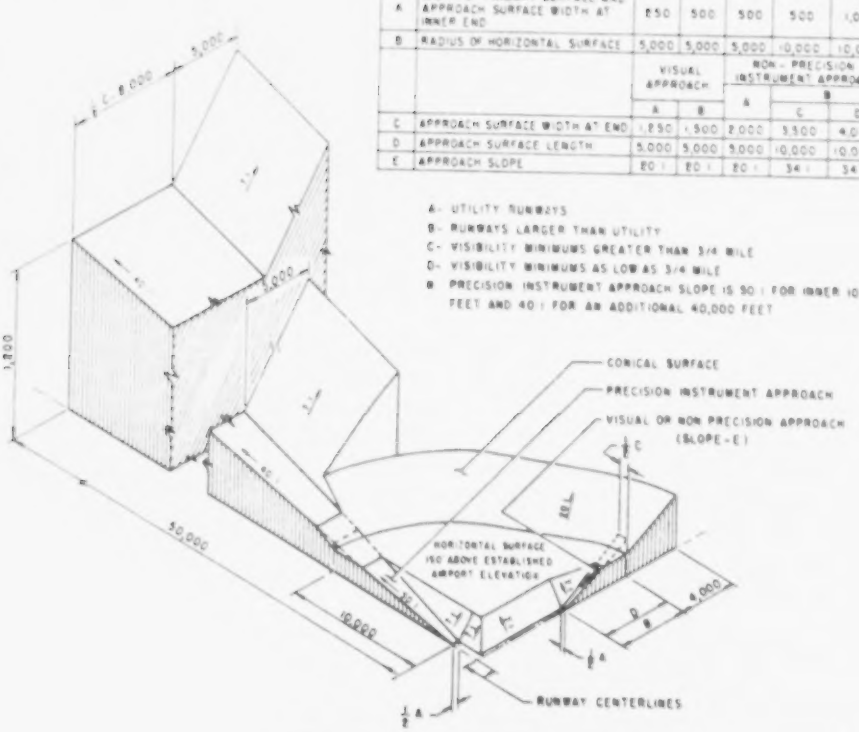


DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	B		
					C	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B		
					C	D	
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	16,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	*
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	*

A- UTILITY RUNWAYS
B- RUNWAYS LARGER THAN UTILITY
C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
* PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET



ISOMETRIC VIEW OF SECTION A-A

FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X^{1}	X^{2} XXXX/XXXX^{3}	XXXXXX.XXX^{4}	XXXXXXX.XXX^{4}	XXXXXXX^{5}		XXXX/XXXX^{6}	XXXXXX.XXX^{7}	XXXXXXX.XXX^{7}					
OBJECT		LAT	LONG	A^{8}	ELEV^{9}	AGL^{10}	HAR^{11}	HAT^{11}	HAA^{11}	DEND^{12}	DTHR^{12}	DCLN^{12}	PNTR^{13}
XXXXXXXXXX		XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXX		XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX

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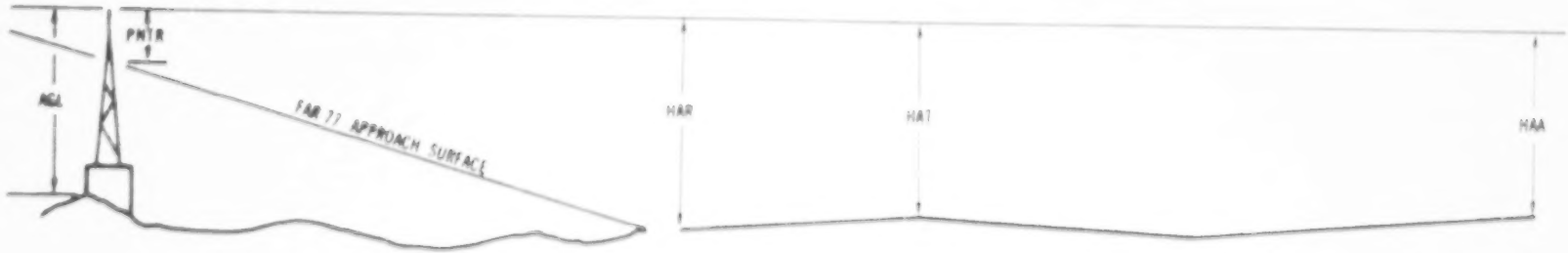

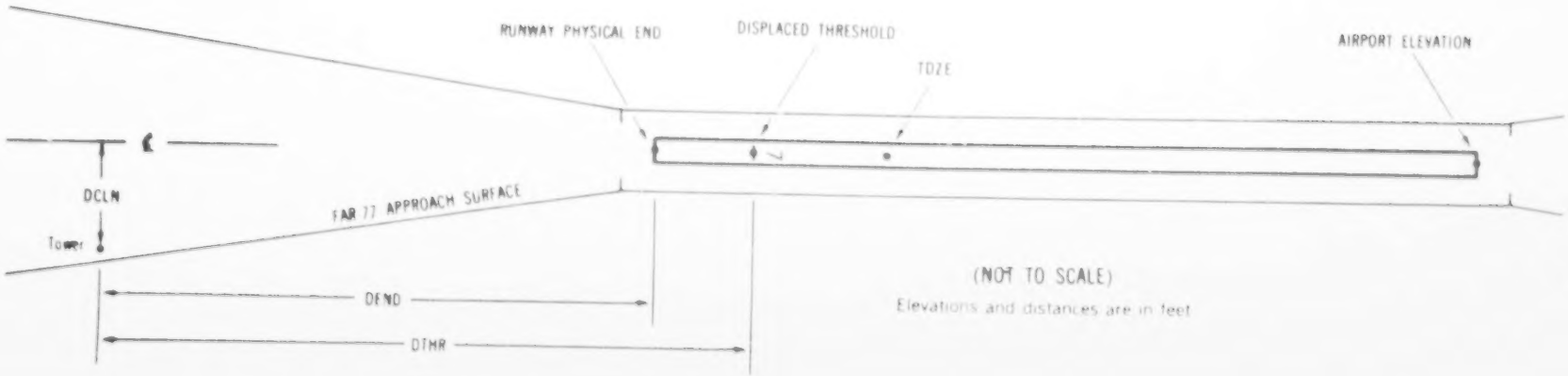

(NOT TO SCALE)

Elevations and distances are in feet

EXPLANATION OF FOOTNOTES

[1] Data block identifier. If a runway number is entered (reference runway), this data block will contain data pertinent to the reference runway and to objects in the FAR-77 approach and primary area of the reference runway. If ARP is entered, this data block will contain the ARP position and data relative to all objects not in an FAR-77 approach or primary area.

[2] For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed.)

[3] Reference runway approach physical end elevation/touchdown zone elevation

[4] Latitude and longitude of reference runway approach physical end

[5] Reference runway geodetic azimuth reckoned clockwise from south

[6] Reference runway displaced threshold elevation/touchdown zone elevation

[7] Latitude and longitude of reference runway displaced threshold

[8] Accuracy Code:

Horizontal	Vertical
1 = 20	A = 2
2 = 40	B = 5
	C = 20

[9] Mean Sea Level (MSL) elevation at top of object. This value includes 15 feet added to noninterstate roads, 17 feet added to interstate roads, and 23 feet added to railroad tracks.

[10] Height above ground level (AGL). AGLs are provided only for those objects appearing on the OC that are equal to, or greater than, 200 feet AGL. AGL accuracy is ±10 feet.

[11] HAA - Height above airport
HAR - Height above reference runway approach physical end
HAT - Height above reference runway touchdown zone elevation

[12] DEND - Distance along reference runway centerline from point perpendicular to object to reference runway approach physical end
DTHR - Distance along reference runway centerline from point perpendicular to object to reference runway threshold
DCLN - Distance left (L) or right (R) of reference runway centerline as observed facing forward in a landing aircraft.

A negative value for DEND or DTHR indicates object is in primary area on roll-out side of zero distance point.

[13] PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

OC0697

AIRPORT ELEVATION 980

4 PIR 945/971 380141.801N 0843651.925W 2213339

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ANTENNA ON OL BUILDING	380227.51	0843604.95	1A	985		40	14	5	-5954		256L	9
OL WINDSOCK	380215.61	0843609.03	1A	999		54	28	19	-4836		299R	19
TREE	380214.38	0843621.34	1A	995		50	24	15	-4090		355L	17
TREE	380206.39	0843632.00	1A	1004		59	33	24	-2919		457L	34
OL ON LIGHTED WINDSOCK	380201.37	0843637.94	1A	996		51	25	16	-2224		476L	31
OL TRANSMISSOMETER	380151.67	0843644.74	1A	967		22	-4	-13	-1129		233L	10
BUSH	380152.53	0843646.53	1A	969		24	-2	-11	-1099		397L	12
BUSH	380146.21	0843654.06	1A	957		12	-14	-23	-220		424L	9
ROAD (N)	380141.90	0843654.06	1A	948		3	-23	-32	106		135L	3
TREE	380135.05	0843659.50	1A	872		-73	-99	-108	913		0L	-87
TREE	380128.33	0843658.68	1A	969		24	-2	-11	1378		500R	0
TREE	380117.15	0843715.90	1A	1014		69	43	34	3139		219R	10
TREE	380110.51	0843736.05	1A	1031		86	60	51	4711		542L	-4

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AIRPORT ELEVATION 980

22 PIR 973/ 380233.587N 0843553.865W 0413415 973/980 380233.251N 0843554.242W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	380141.90	0843654.06	1A	948		-25	-32	-32	-7107	-7062	135R	3
BUSH	380146.21	0843654.06	1A	957		-16	-23	-23	-6781	-6736	424R	9
OL TRANSMISSOMETER	380152.53	0843646.53	1A	969		-4	-11	-11	-5903	-5857	397R	12
OL ON LIGHTED WINDSOCK	380151.67	0843644.74	1A	967		-6	-13	-13	-5873	-5827	233R	10
TREE	380201.37	0843637.94	1A	996		23	16	16	-4778	-4732	476R	31
TREE	380206.39	0843632.00	1A	1004		31	24	24	-4082	-4037	457R	34
TREE	380214.38	0843621.34	1A	995		22	15	15	-2912	-2866	355R	17
OL WINDSOCK	380215.61	0843609.03	1A	999		26	19	19	-2165	-2120	299L	19
ANTENNA ON OL BUILDING	380227.51	0843604.95	1A	985		12	5	5	-1048	-1002	256R	9
TREE	380237.40	0843554.46	1A	983		10	3	3	257	303	292R	9
OL ON LOCALIZER	380235.71	0843551.49	1A	977		4	-3	-3	287	332	1R	2
TREE	380238.15	0843550.38	1A	987		14	7	7	530	576	98R	7
LIGHT STANDARD	380236.90	0843545.60	1A	982		9	2	2	689	735	273L	-1
POLE	380238.42	0843547.74	1A	985		12	5	5	690	736	42L	2
TREE	380236.47	0843542.27	1A	1003		30	23	23	834	879	501L	17
TREE	380243.59	0843550.76	1A	997		24	17	17	922	967	486R	10
TREE	380249.37	0843546.24	1A	1024		51	44	44	1599	1645	603R	23
TREE	380242.81	0843535.67	1A	1008		35	28	28	1664	1709	470L	6
TREE	380250.82	0843542.01	1A	1020		47	40	40	1934	1979	447R	12
TREE	380247.55	0843536.30	1A	1026		53	46	46	1989	2035	114L	17
TREE	380252.82	0843525.66	1A	1043		70	63	63	2952	2998	397L	15
	380251.72	0843517.57	1A	1049		76	69	69	3299	3344	955L	14

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AIRPORT ELEVATION 980

8 A(V) 970/977 380220.080N 0843634.718W 2603444

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	380219.54	0843638.26	1A	974		4	-3	-6	289		8R	0
BUSH	380219.30	0843639.61	1A	981		11	4	1	399		13R	1
TREE	380217.48	0843641.02	1A	1010		40	33	30	541		177R	23
TREE	380218.45	0843647.21	1A	1021		51	44	41	1013		1L	10
OL ON SILO	380220.21	0843649.45	1A	1029		59	52	49	1160		206L	11
TREE	380216.53	0843658.92	1A	1038		68	61	58	1969		37R	-20

26 A(V) 973/977 380225.743N 0843551.556W 0803510

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
LIGHT STANDARD	380226.59	0843544.69	1A	995		22	18	15	556		5L	4

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AIRPORT ELEVATION 980

ARP 380212.767N 0843619.645W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
WINDSOCK	380218.87	0843632.54	1A	977		-3	304 1	1202
ROD ON OL ANEMOMETER	380224.93	0843621.59	1A	994		14	355 54	1241
TREE	380216.73	0843636.88	1A	1011		31	289 19	1436
ROD ON OL RTR TOWER	380228.02	0843617.60	1A	1029		49	9 10	1552
TREE	380217.30	0843639.31	1A	1007		27	289 22	1639
TREE	380222.46	0843636.13	1A	1010		30	309 44	1644
TREE	380224.72	0843635.48	1A	1022		42	316 45	1751
TREE	380203.68	0843639.13	1A	1016		36	242 34	1810
TREE	380225.65	0843643.00	1A	1044		64	308 0	2278
WINDSOCK	380223.77	0843554.53	1A	981		1	64 7	2297
FLOODLIGHT	380221.92	0843552.23	1A	1009		29	70 13	2381
ROD ON OL AIRPORT BEACON	380213.89	0843549.31	1A	1091		111	90 26	2430
ANTENNA ON OL CONTROL TR	380214.96	0843549.13	1A	1080		100	87 55	2451
LIGHT STANDARD	380223.28	0843550.51	1A	996		16	68 35	2562
BUNKER	380224.31	0843549.44	1A	978		-2	67 18	2684
TREE	380221.72	0843651.59	1A	1036		56	292 37	2711
ROAD (N)	380223.85	0843548.53	1A	989		9	68 51	2730
TREE	380238.12	0843559.78	1A	1008		28	34 53	3017
OL GLIDE SLOPE	380153.12	0843649.24	1A	1012		32	233 6	3092
TREE	380240.88	0843600.87	1A	1032		52	30 57	3216
TREE	380242.58	0843602.88	1A	1069		89	27 4	3300
ROD ON ASR	380201.03	0843541.01	1B	1078		98	114 7	3311
LIGHT STANDARD	380232.15	0843544.50	1A	995		15	58 13	3427
TREE	380233.26	0843542.53	1A	1009		29	58 11	3621
TREE	380145.85	0843657.51	1A	969		-11	231 9	4074
TREE	380144.14	0843659.09	1A	957		-23	230 34	4283
TREE	380238.07	0843531.67	1A	1034		54	59 24	4613
TREE	380252.33	0843547.15	1A	1042		62	36 6	4772
TREE	380130.85	0843649.10	1A	984		4	212 10	4851
TREE	380242.24	0843528.51	1A	1041		61	57 1	5062
WATER TANK	380309.79	0843627.02	1B	1104		124	357 16	5799
TREE	380249.90	0843518.35	1A	1051		71	55 39	6176
TREE	380058.27	0843716.62	1A	1046		66	214 17	8807
OL ON RADIO TOWER	380242.84	0843930.26	2A	1212	307	232	284 24	15550

TOUCHDOWN ZONE RUNWAY	ELEVATION
4	971
22	980
8	977
26	977

BLUE GRASS AIRPORT

LEXINGTON, KENTUCKY

(NOT TO SCALE)